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V. Srinivasan, G. Varghese

February 1999 ACM Transactions on Computer Systems (TOCS). Volume 17 Issue 1

Publisher: ACM

Full text available: pdf(258.60 KB)

Additional Information: full citation, abstract, references, cited by, index terms, review

Internet (IP) address lookup is a major bottleneck in high-performance routers. IP address lookup is challenging because it requires a longest matching prefix lookup. It is compounded by increasing routing table sizes, increased traffic, ...

Keywords: Internet address lookup, binary search on levels, controlled prefix expansion, expanded tries, longest-prefix match, multibit tries, router performance

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2 [Going with the flow: email awareness and task management](#)

Nelson Siu, Lee Iverson, Anthony Tang

November 2006 CSCW '06: Proceedings of the 2006 20th anniversary conference on Computer supported cooperative work

Publisher: ACM

Full text available: pdf(182.24 KB)

Additional Information: full citation, abstract, references, index terms

Email use in the context of everyday work practices, or *email flow*, has not been heavily studied. We present the results of a pair of studies examining how users *interlace* email with their day-to-day, ongoing work processes. We demonstrate ...

Keywords: email deferral, email flow, task management

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3 [Methods for special applications: a recursive method for traffic management through a complex path network](#)

Michael Norman

December 2002 WSC '02: Proceedings of the 34th conference on Winter

simulation: exploring new frontiers

Publisher: Winter Simulation Conference

Full text available:  pdf(162.93 KB) Additional Information: full citation, abstract, cited by


Many simulation models contain one or more transport systems where some type of vehicle, perhaps an AGV, a fork truck, a shuttle, or a human being, travel along predefined paths. Locations along the paths may specify where loads carried by the vehicle ...

#### 4 Free software developers as an occupational community: resolving conflicts and fostering collaboration

Margaret S. Elliott, Walt Scacchi

November 2003 GROUP '03: Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work

Publisher: ACM

Full text available:  pdf(299.64 KB) Additional Information: full citation, abstract, references, cited by, index terms

In this paper, we present results from the study of a free software development virtual organization, the GNU Enterprise (GNUe) project, and how they develop software in a globally distributed free software development project. In particular, examples ...


Keywords: computer-supported cooperative work, conflict, free/open source software development, occupational community, organizational culture, virtual organization

#### 5 The impact of research on middleware technology

Wolfgang Emmerich, Mikio Aoyama, Joe Sveteck

January 2007 ACM SIGOPS Operating Systems Review, Volume 41 Issue 1

Publisher: ACM

Full text available:  pdf(573.57 KB) Additional Information: full citation, abstract, references, index terms


The middleware market represents a sizable segment of the overall Information and Communication Technology market. In 2005, the annual middleware license revenue was reported by Gartner to be in the region of 8.5 billion US Dollars. In this article we ...

#### 6 Subjunctive interfaces: Extending applications to support parallel setup, viewing and control of alternative scenarios

Aran Lunzer, Kasper Hornbæk

January 2008 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 14 Issue 4

Publisher: ACM

Full text available:  pdf(3.85 MB) Additional Information: full citation, abstract, references, index terms

Many applications require exploration of alternative scenarios; most support it poorly. Subjunctive interfaces provide mechanisms for the parallel setup, viewing and control of scenarios, aiming to support users'

thinking about and interaction with their ...


**Keywords:** Subjunctive interfaces, information exploration, multiple views, user study

7 Strategy simulations: steering strategic decisions at london underground: evaluating management options with system dynamics

Donna D. Mayo, William J. Dalton, Martin J. Callaghan

December 2003 WSC '03: Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

Full text available:  pdf(512.39 KB) **Additional Information:** full citation, abstract, references, cited by

System dynamics simulation models provide a powerful and rigorous means of evaluating management options in dynamically complex settings such as a metro subway system. This paper explores how a system dynamics model has been used over several years to ...

8 Two case studies of open source software development: Apache and




Mozilla

July 2002 ACM Transactions on Software Engineering and

Methodology (TOSEM). Volume 11 Issue 3

Publisher: ACM

Full text available:  pdf(373.19 KB) **Additional Information:** full citation, abstract, references, cited by, index terms, review

According to its proponents, open source style software development has the capacity to compete successfully, and perhaps in many cases displace, traditional commercial development methods. In order to begin investigating such claims, we examine data ...

**Keywords:** Apache, Mozilla, Open source software, code ownership, defect density, repair interval

9 A case study of open source software development: the Apache




server

Audris Mockus, Roy T. Fielding, James Herbsleb

June 2000 ICSE '00: Proceedings of the 22nd international conference on Software engineering

Publisher: ACM

Full text available:  pdf(235.75 KB) **Additional Information:** full citation, abstract, references, cited by, index terms

According to its proponents, open source style software development has the capacity to compete successfully, and perhaps in many cases displace, traditional commercial development methods. In order to begin investigating such claims, we examine the ...

**Keywords:** code ownership, defect density, open source, repair interval, software process

10 Experiences in building and operating ePOST, a reliable peer-to-peer application



Alan Mislove, Ansley Post, Andreas Haeberlen, Peter Druschel  
October 2006 ACM SIGOPS Operating Systems Review. Volume 40 Issue 4  
Publisher: ACM

Full text available: pdf(382.48 KB) Additional Information: full citation, abstract, references, index terms

Peer-to-peer (p2p) technology can potentially be used to build highly reliable applications without a single point of failure. However, most of the existing applications, such as file sharing or web caching, have only moderate reliability demands. Without ...

Keywords: decentralized systems, electronic mail, peer-to-peer, reliability

11 The impact of research on middleware technology



Wolfgang Emmerich, Mikio Aoyama, Joe Sventek  
January 2007 ACM SIGSOFT Software Engineering Notes. Volume 32 Issue 1  
Publisher: ACM

Full text available: pdf(2.24 MB) Additional Information: full citation, abstract, references, index terms

The middleware market represents a sizable segment of the overall Information and Communication Technology market. In 2005, the annual middleware license revenue was reported by Gartner to be in the region of 8.5 billion US Dollars. In this article we ...

12 Weapon and communication systems: simulating crisis communications

William S. Murphy, Jr., Mark A. Flournoy  
December 2002 WSC '02: Proceedings of the 34th conference on Winter simulation: exploring new frontiers  
Publisher: Winter Simulation Conference


Full text available: pdf(188.04 KB) Additional Information: full citation, abstract, references

This paper addresses the need for simulation of voice and data communication demands during civil and military crisis events. Modeling of federal, state, and local civilian agencies in addition to military forces can lead to better planning and execution ...

13 Interactive dynamic response for games



Victor Zordan, Adriano Macchietto, Jose Medina, Marc Soriano, Chun-Chih Wu  
August 2007 Sandbox '07: Proceedings of the 2007 ACM SIGGRAPH symposium on Video games  
Publisher: ACM

Full text available:  pdf(13.28 MB) Additional Information: full citation, abstract, references, index terms


Dynamic response is a technique for employing a physical reaction to an animated character. The technique utilizes a database of reactions as example motions to transition to following a dynamic simulation of an interaction. The search for the example ...

14 [Inter-modal transportation: the use of simulation modeling for intermodal capacity assessment](#)

Beth C. Kulick, James T. Sawyer

December 2000 WSC '00: Proceedings of the 32nd conference on Winter simulation

Publisher: Society for Computer Simulation International

Full text available:  pdf(158.31 KB) Additional Information: full citation, abstract, references


Simulation modeling that has been successfully used to analyze intermodal capacity issues for a wide variety of facilities. Simulation technology provides an analysis mechanism for large intermodal facilities that are difficult to duplicate with other ...

15 [Piecewise C1 Continuous Surface Reconstruction of Noisy Point Clouds via Local Implicit Quadric Regression](#)

Hui Xie, Janning Wang, Jing Hua, Hong Qin, Arie Kaufman

October 2003 VIS '03: Proceedings of the 14th IEEE Visualization 2003 (VIS'03)

Publisher: IEEE Computer Society

Full text available:  pdf(894.01 KB) Additional Information: full citation, abstract, references, cited by

This paper addresses the problem of surface reconstruction of highly noisy point clouds. The surfaces to be reconstructed are assumed to be 2-manifolds of piecewise C 1 continuity, with isolated small irregular regions of high curvature, sophisticated ...

Keywords: Computer Graphics, Surface Reconstruction, Point Cloud, Surface Representation, Solid Modeling, Moving Least Squares, Shepard's Method


16 [Users dealing with spam and spam filters: some observations and recommendations](#)



Christopher Lueg, Sam Martin

July 2007 CHI NZ '07: Proceedings of the 7th ACM SIGCHI New Zealand chapter's international conference on Computer-human interaction: design centered HCI

Publisher: ACM

Full text available:  pdf(394.72 KB) Additional Information: full citation, abstract, references, index terms

The email communication system is threatened by unsolicited commercial email aka spam. In response, spam filters have been

deployed widely to help reduce the amount of spam users have to cope with. This paper describes work towards helping users better ...

**Keywords:** electronic mail, information retrieval, information search, informative interfaces, spam

# 17 Experiences in building and operating ePOST, a reliable peer-to-peer application



Alan Mislove, Ansley Post, Andreas Haeberlen, Peter Druschel  
 April 2006 EuroSys '06: Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems 2006  
 Publisher: ACM

Full text available: pdf(362.48 KB) **Additional Information:** full citation, abstract, references, index terms

Peer-to-peer (p2p) technology can potentially be used to build highly reliable applications without a single point of failure. However, most of the existing applications, such as file sharing or web caching, have only moderate reliability demands. Without ...

**Keywords:** decentralized systems, electronic mail, peer-to-peer, reliability

# 18 Disruption and recovery of computing tasks: field study, analysis, and directions



Shamsi T. Iqbal, Eric Horvitz  
 April 2007 CHI '07: Proceedings of the SIGCHI conference on Human factors in computing systems  
 Publisher: ACM

Full text available: pdf(632.55 KB) **Additional Information:** full citation, abstract, references, index terms

We report on a field study of the multitasking behavior of computer users focused on the suspension and resumption of tasks. Data was collected with a tool that logged users' interactions with software applications and their associated windows, as well ...

**Keywords:** attention, interruption, notifications, task switching

# 19 Measuring thin-client performance using slow-motion benchmarking



Jason Nieh, S. Jae Yang, Naomi Novik  
 February 2003 ACM Transactions on Computer Systems (TOCS), Volume 21 Issue 1  
 Publisher: ACM

Full text available: pdf(671.62 KB) **Additional Information:** full citation, abstract, references, cited by, index terms

Modern thin-client systems are designed to provide the same graphical interfaces and applications available on traditional desktop computers while centralizing administration and allowing more efficient use of computing resources. Despite the rapidly ...

**Keywords:** Thin-client computing, client-server, measurement

methodology, multimedia

20 [A message ferrying approach for data delivery in sparse mobile ad hoc networks](#)



W. Zhao, M. Ammar, E. Zegura

May 2004 MobiHoc '04: Proceedings of the 5th ACM international symposium on Mobile ad hoc networking and computing

Publisher: ACM

Full text available: [pdf\(152.16 KB\)](#) [Additional Information: full citation, abstract, references, cited by, index terms](#)

Mobile Ad Hoc Networks (MANETs) provide rapidly deployable and self-configuring network capacity required in many critical applications, e.g., battlefields, disaster relief and wide area sensing. In this paper we study the problem of efficient data delivery ...

Keywords: mobile ad hoc networks, mobility-assisted data delivery, sparse networks

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